

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT		1. CONTRACT ID CODE		PAGE OF PAGES 1 3	
2. AMENDMENT/MODIFICATION NO. 5		3. EFFECTIVE DATE 05/06/2010		4. REQUISITION/PURCHASE REQ. NO.	
5. PROJECT NO. (If applicable)		7. ADMINISTERED BY (If other than Item 6)		CODE JSC	
6. ISSUED BY NASA/Johnson Space Center Attn: Peter Hollis/BH2 2101 NASA Parkway Houston TX 77058-3696		CODE JSC		7. ADMINISTERED BY (If other than Item 6) NASA/Johnson Space Center Attn: Peter Hollis/BH2 2101 NASA Parkway Houston TX 77058-3696	
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)		(X) 9A. AMENDMENT OF SOLICITATION NO. NNJ10322845R		9B. DATED (SEE ITEM 11) 04/02/2010	
CODE		FACILITY CODE		10A. MODIFICATION OF CONTRACT/ORDER NO.	
				10B. DATED (SEE ITEM 13)	

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

☒ The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers ☐ is extended. ☒ is not extended.
Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods: (a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGEMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

13. THIS ITEM ONLY APPLIES TO MODIFICATION OF CONTRACTS/ORDERS. IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.


CHECK ONE	A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER NO. IN ITEM 10A.
	B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR 43.103(b).
	C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF:
	D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor ☐ is not. ☐ is required to sign this document and return _____ copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

The purpose of this amendment is to answer the attached questions submitted in reference to the solicitation. The due date for proposals is not extended.

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect.

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print) Julie K. Karr	
15B. CONTRACTOR/OFFEROR (Signature of person authorized to sign)	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA  (Signature of Contracting Officer)	16C. DATE SIGNED 5/6/10

Question 18: Is the 7 month ARO delivery date for the Basic Hardware a firm date?

Answer 18: Yes, 7 months ARO is the latest possible delivery date.

Question 19: Regarding the acceleration requirement 3.1.12, is this from a standstill or at any starting velocity?

Answer 19: Both

Question 20: Regarding the acceleration requirement 3.1.12, is this in conjunction with the peak or nominal thrust requirements?

Answer 20: This requirement calls out a condition, "...when attached to a mass of 8 lbm..."

Question 21: Regarding the thrust margin requirement 3.10.3, should this be interpreted such that a factor of 2 (margin of 1) shall be applied to the peak and nominal thrust requirements 3.10.1 and 3.10.2 as described in paragraph 4.10.1 of NASA-STD-5017

Answer 21: Yes

Question 22: Please confirm that non-operational and operation temperature ranges are the same

Answer 22: Yes

Question 23: Are heaters allowed? If so, must they be redundant? If so, must they be equipped with nearby temperature sensors and/or thermostatic switches?

Answer 23: Heaters are not allowed.

Question 24: When the actuator is in the 25 to 75 percent humid environment, in order to preclude moisture effects on lubricants is it permissible to enclose the actuator in a bag or container containing desiccant material?

Answer 24: No

Question 25: Please describe the worst-case duty-cycle power-wise (e.g., describe velocity, acceleration and thrust that must be maintained) requiring 20 minutes of on-time duration (requirement 3.4.3)

Answer 25: Requirement 3.4.3 only refers to static loading periods. Excursions of peak acceleration and peak velocity are experienced at the transitions in this duty cycle.